BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:NAME OF WORK: Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra

Estimation Cost.Rs 20000000.00

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
1	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27,								
	Maruthi Layout								
	5th A Cross Road	Cum	2	6.10	0.45	0.50	2.75		
	HI -Lines Hyper Market Opposite Road								
		Cum	2	8.70	0.45	0.50	3.92		
	Basic rate	351.00							
	Area weightage 6%	21.06							
	5Km lead & Lift=	69.80							
	Sub Total	**441.86**							
	Total						**6.66**	**441.86**	**2942.79**
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	New Drain								
	Maruthi Layout								
	Cross Road-2	Cum	2	49	1.20	0.9	105.41		
	Cross Road-3	Cum	2	30	1.20	0.9	64.80		
	5th A Cross Road	Cum	2	123	1.20	0.9	265.68		
	Nandhana Nilaya Road	Cum	2	25	1.20	0.9	54.00		
	Sri Nilaya House Road	Cum	2	89	1.20	0.9	192.24		
	Badmiton Court Road	Cum	2	88	1.20	0.9	190.08		
	Sri Priya Nilaya Road								
	LHS	Cum	1	123	1.20	0.9	132.84		
	RHS	Cum	1	123	1.20	0.9	132.84		
	BBMP Office Back Side Road	Cum	2	71	1.20	0.9	153.36		
	HI -Lines Hyper Market Opposite Road								
	LHS	Cum	1	123	1.20	0.9	132.84		
	Maruthi Layout								
	5th A Cross Road	Cum	1	6.10	1.60	0.95	9.27		
	Sri Priya Nilaya Road	Cum	5	5.00	1.60	0.95	38.00		
	HI -Lines Hyper Market Opposite Road								
		Cum	1	8.70	1.90	0.95	15.70		
		Cum	1	4.80	1.90	0.95	8.66		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**207.60**							
	Total						**1495.73**	**207.60**	**310514.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
3	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain								
	Maruthi Layout								
	Cross Road-2	Cum	2	48.80	1.20	0.15	17.57		
	Cross Road-3	Cum	2	30.00	1.20	0.15	10.80		
	5th A Cross Road	Cum	2	123.00	1.20	0.15	44.28		
	Nandhana Nilaya Road	Cum	2	25.00	1.20	0.15	9.00		
	Sri Nilaya House Road	Cum	2	89.00	1.20	0.15	32.04		
	Badmiton Court Road	Cum	2	88.00	1.20	0.15	31.68		
	Sri Priya Nilaya Road								
	LHS	Cum	1	123.00	1.20	0.15	22.14		
	RHS	Cum	1	123.00	1.20	0.15	22.14		
	BBMP Office Back Side Road	Cum	2	71.00	1.20	0.15	25.56		
	HI -Lines Hyper Market Opposite Road								
	LHS	Cum	1	123.00	1.20	0.15	22.14		
	For Culvert								
	Maruthi Layout								
	5th A Cross Road	Cum	1	6.10	1.60	0.15	1.46		
	Sri Priya Nilaya Road	Cum	5	5.00	1.60	0.15	6.00		
	HI -Lines Hyper Market Opposite Road								
		Cum	1	8.70	1.90	0.15	2.48		
		Cum	1	4.80	1.90	0.15	1.37		
	For CC Road								
	Maruthi Layout								
	Sri Priya Nilaya Road	Cum	1	123.00	4.70	0.15	86.72		
	BBMP Office Back Side Road	Cum	1	71.00	4.60	0.15	48.99		
	Srinivasa Medical Opposite Road	Cum	1	38.00	3.50	0.15	19.95		
	Srinivasa Building Road	Cum	1	40.00	3.50	0.15	21.00		
	HI -Lines Hyper Market Opposite Road	Cum	1	123	4.50	0.15	83.03		
	Basic rate	5359.07							
	Area weightage 6%	321.54							
	Sub Total	**5680.61**							
	Total						**508.34**	**5680.61**	**2887680.00**
4	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Drain Bottom Raft								
	Maruthi Layout								
	Cross Road-2	Cum	2	48.80	1.05	0.15	15.37		
	Cross Road-3	Cum	2	30.00	1.05	0.15	9.45		
	5th A Cross Road	Cum	2	123.00	1.05	0.15	38.75		
	Nandhana Nilaya Road	Cum	2	25.00	1.05	0.15	7.88		
	Sri Nilaya House Road	Cum	2	89.00	1.05	0.15	28.04		
	Badmiton Court Road	Cum	2	88.00	1.05	0.15	27.72		
	Sri Priya Nilaya Road								
	LHS	Cum	1	123.00	1.05	0.15	19.37		
	RHS	Cum	1	123.00	1.05	0.15	19.37		
	BBMP Office Back Side Road	Cum	2	71.00	1.05	0.15	22.37		
	HI -Lines Hyper Market Opposite Road								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	LHS	Cum	1	123.00	1.05	0.15	19.37		
	Drain Side Wall								
	Maruthi Layout								
	Cross Road-2	Cum	4	48.80	0.15	0.60	17.57		
	Cross Road-3	Cum	4	30.00	0.15	0.60	10.80		
	5th A Cross Road	Cum	4	123.00	0.15	0.60	44.28		
	Nandhana Nilaya Road	Cum	4	25.00	0.15	0.60	9.00		
	Sri Nilaya House Road	Cum	4	89.00	0.15	0.60	32.04		
	Badmiton Court Road	Cum	4	88.00	0.15	0.60	31.68		
	Sri Priya Nilaya Road						0.00		
	LHS	Cum	2	123.00	0.15	0.60	22.14		
	RHS	Cum	2	123.00	0.15	0.60	22.14		
	BBMP Office Back Side Road	Cum	4	71.00	0.15	0.60	25.56		
	HI -Lines Hyper Market Opposite Road								
	LHS	Cum	2	123.00	0.15	0.60	22.14		
					Sub Total		**445.03**		
	Culvert Bottom Raft								
	Maruthi Layout								
	5th A Cross Road	Cum	1	6.10	1.40	0.20	1.71		
	Sri Priya Nilaya Road	Cum	5	5.00	1.40	0.20	7.00		
	HI -Lines Hyper Market Opposite Road								
		Cum	1	8.70	1.70	0.20	2.96		
		Cum	1	4.80	1.70	0.20	1.63		
	Culvert Side Walls								
	Maruthi Layout								
	5th A Cross Road	Cum	2	6.10	0.20	0.60	1.46		
	Sri Priya Nilaya Road	Cum	10	5.00	0.20	0.60	6.00		
	HI -Lines Hyper Market Opposite Road								
		Cum	2	8.70	0.20	0.6	2.09		
		Cum	2	4.80	0.20	0.6	1.15		
					Sub Total		**24.00**		
	Basic rate	7002.82							
	Area weightage 6%	420.17							
	Sub Total	**7422.99**							
	Total						**469.03**	**7422.99**	**3481601.00**
5	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From item no.4				445.03		
		kg	Steel assumed 70 Kg/Cum of Concrete				31151.93		
		Tonne					**31.15**		
	For Culvert	Cum	From item no.4				24.00		
		kg	Steel assumed 100Kg/Cum of Concrete				2400.20		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
		Tonne							
	Basic rate	75610					2.40		
	Area weightage 6%	4536.6							
	Sub Total	**80146.60**							
	Total						**33.55**	**80146.60**	**2689089.00**
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Maruthi Layout								
	Cross Road-2	Sqm	2	48.80	0.75		73.20		
	Cross Road-3	Sqm	2	30.00	0.75		45.00		
	5th A Cross Road	Sqm	2	123.00	0.75		184.50		
	Nandhana Nilaya Road	Sqm	2	25.00	0.75		37.50		
	Sri Nilaya House Road	Sqm	2	89.00	0.75		133.50		
	Badmiton Court Road	Sqm	2	88.00	0.75		132.00		
	Sri Priya Nilaya Road	Sqm							
	LHS	Sqm	1	123.00	0.75		92.25		
	RHS	Sqm	1	123.00	0.75		92.25		
	BBMP Office Back Side Road	Sqm	2	71.00	0.75		106.50		
	HI -Lines Hyper Market Opposite Road								
	LHS	Sqm	1	123.00	0.75		92.25		
	Data rate	**2337.00**							
	Total						**988.95**	**2337.00**	**2311177.00**
7	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	New Culvert								
	Maruthi Layout								
	5th A Cross Road	Sqm	1	6.10	1.20		7.32		
	Sri Priya Nilaya Road	Sqm	5	5.00	1.20		30.00		
	HI -Lines Hyper Market Opposite Road	Sqm							
		Sqm	1	8.70	1.50		13.05		
		Sqm	1	4.80	1.50		7.20		
	Data rate	**5418.00**							
	Total						**57.57**	**5418.00**	**311915.00**
8	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 5km lead= (I No-19.14,P No-143)								
	Maruthi Layout								
	Cross Road-2	Cum	1	48.80	6.4	0.38	118.68		
	Cross Road-3	Cum	1	30.00	6.0	0.38	68.40		
	5th A Cross Road	Cum	1	123.00	5.8	0.38	271.09		
	Nandhana Nilaya Road	Cum	1	25.00	5.7	0.38	54.15		
	Sri Nilaya House Road	Cum	1	89.00	6.0	0.38	202.92		
	Road Strenthning for UGD Cut Portion								
	Maruthi Layout								
	Cross Road-2	Cum	1	48.8	1.20	0.23	13.47		
	Cross Road-3	Cum	1	30.0	1.20	0.23	8.28		
	5th A Cross Road	Cum	1	123.0	1.20	0.23	33.95		
	Nandhana Nilaya Road	Cum	1	25.0	1.20	0.23	6.90		
	Sri Nilaya House Road	Cum	1	89.0	1.20	0.23	24.56		
	Badmiton Court Road	Cum	1	88.0	1.20	0.23	24.29		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Road Strenthning for Kaveri Water line Cut Portion								
	Maruthi Layout								
	Cross Road-2	Cum	1	48.8	1.20	0.23	13.47		
	Cross Road-3	Cum	1	30.0	1.20	0.23	8.28		
	5th A Cross Road	Cum	1	123.0	1.20	0.23	33.95		
	Nandhana Nilaya Road	Cum	1	25.0	1.20	0.23	6.90		
	Sri Nilaya House Road	Cum	1	89.0	1.20	0.23	24.56		
	Badmiton Court Road	Cum	1	88.0	1.20	0.23	24.29		
	For CC Road								
	Maruthi Layout								
	Sri Priya Nilaya Road	Cum	1	123.0	4.70	0.45	260.15		
	BBMP Office Back Side Road	Cum	1	71.0	4.60	0.45	146.97		
	Srinivasa Medical Opposite Road	Cum	1	38.0	3.50	0.45	59.85		
	Srinivasa Building Road	Cum	1	40.0	3.50	0.45	63.00		
	HI -Lines Hyper Market Opposite Road	Cum	1	123.00	4.50	0.45	249.08		
	Basic Rate	41.00							
	Area weightage 6%	2.46							
	5Km lead = (2*1.28*5)	12.80							
	Sub Total	**56.26**							
	Total						**1717.18**	**56.26**	**96609.00**
9	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Maruthi Layout								
	Badmiton Court Road	Sqm	1	88.00	6.20		545.60		
	Basic rate	39.00							
	Area weightage 6%	2.34							
	Sub Total	**41.34**							
	Total						**545.60**	**41.34**	**22556.00**
10	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	For BC Road								
	Maruthi Layout								
	Cross Road-2	Sqm	1	48.80	6.40		312.32		
	Cross Road-3	Sqm	1	30.00	6.00		180.00		
	5th A Cross Road	Sqm	1	123.00	5.80		713.40		
	Nandhana Nilaya Road	Sqm	1	25.00	5.70		142.50		
	Sri Nilaya House Road	Sqm	1	89.00	6.00		534.00		
	Badmiton Court Road	Sqm	1	88.0	6.2		545.60		
	For CC Road								
	Maruthi Layout								
	Sri Priya Nilaya Road	Sqm	1	123.0	4.7		578.10		
	BBMP Office Back Side Road	Sqm	1	71.0	4.6		326.60		
	Srinivasa Medical Opposite Road	Sqm	1	38.0	3.5		133.00		
	Srinivasa Building Road	Sqm	1	40.0	3.5		140.00		
	HI -Lines Hyper Market Opposite Road	Sqm	1	123.0	4.5		553.50		
	Basic rate	6.00							
	Area weightage 6%	0.36							
	Sub Total	**6.36**							
	Total						**4159.02**	**6.36**	**26452.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
11	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For BC Road								
	Maruthi Layout								
	Cross Road-2	Cum	1	48.8	6.40	0.15	46.85		
	Cross Road-3	Cum	1	30.0	6.00	0.15	27.00		
	5th A Cross Road	Cum	1	123.0	5.80	0.15	107.01		
	Nandhana Nilaya Road	Cum	1	25.0	5.70	0.15	21.38		
	Sri Nilaya House Road	Cum	1	89.0	6.00	0.15	80.10		
	For CC Road								
	Maruthi Layout								
	Sri Priya Nilaya Road	Cum	1	123.00	4.70	0.15	86.72		
	BBMP Office Back Side Road	Cum	1	71.00	4.60	0.15	48.99		
	Srinivasa Medical Opposite Road	Cum	1	38.00	3.50	0.15	19.95		
	Srinivasa Building Road	Cum	1	40.00	3.50	0.15	21.00		
	HI -Lines Hyper Market Opposite Road	Cum	1	123.00	4.50	0.15	83.03		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	**1994.92**							
	Total						**542.01**	**1994.92**	**1081273.00**
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Maruthi Layout								
	Cross Road-2	Cum	1	48.80	6.40	0.23	71.83		
	Cross Road-3	Cum	1	30.00	6.00	0.23	41.40		
	5th A Cross Road	Cum	1	123.00	5.80	0.23	164.08		
	Nandhana Nilaya Road	Cum	1	25.00	5.70	0.23	32.78		
	Sri Nilaya House Road	Cum	1	89.00	6.00	0.23	122.82		
	Badmiton Court Road	Cum	1	88.00	6.20	0.23	125.49		
	Road Strenthning for UGD Cut Portion								
	Maruthi Layout								
	Cross Road-2	Cum	1	48.8	1.2	0.23	13.47		
	Cross Road-3	Cum	1	30.0	1.2	0.23	8.28		
	5th A Cross Road	Cum	1	123.0	1.2	0.23	33.95		
	Nandhana Nilaya Road	Cum	1	25.0	1.2	0.23	6.90		
	Sri Nilaya House Road	Cum	1	89.0	1.2	0.23	24.56		
	Badmiton Court Road	Cum	1	88.0	1.2	0.23	24.29		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Road Strenthning for Kaveri Water line Cut Portion								
	Maruthi Layout								
	Cross Road-2	Cum	1	48.8	1.2	0.23	13.47		
	Cross Road-3	Cum	1	30.0	1.2	0.23	8.28		
	5th A Cross Road	Cum	1	123.0	1.2	0.23	33.95		
	Nandhana Nilaya Road	Cum	1	25.0	1.2	0.23	6.90		
	Sri Nilaya House Road	Cum	1	89.0	1.2	0.23	24.56		
	Badmiton Court Road	Cum	1	88.0	1.2	0.23	24.29		
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	**2001.28**							
	Total						**781.30**	**2001.28**	**1563593.00**
13	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar per specifications.(P.No.158,I.No.21.1)								
	Maruthi Layout								
	Cross Road-2	Sqm	1	48.80	6.40		312.32		
	Cross Road-3	Sqm	1	30.00	6.00		180.00		
	5th A Cross Road	Sqm	1	123.00	5.80		713.40		
	Nandhana Nilaya Road	Sqm	1	25.00	5.70		142.50		
	Sri Nilaya House Road	Sqm	1	89.00	6.00		534.00		
	Badmiton Court Road	Sqm	1	88.00	6.20		545.60		
	Basic rate	21.00							
	Area weightage 6%	1.26							
	Sub Total	**22.26**							
	Total						**2427.82**	**22.26**	**54044.00**
14	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Maruthi Layout								
	5th A Cross Road	Sqm	1	123.00	5.8		713.40		
	Basic rate	32.00							
	Area weightage 6%	1.92							
	Sub Total	**33.92**							
	Total						**713.40**	**33.92**	**24199.00**
15	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Maruthi Layout								
	5th A Cross Road	Cum	1	123.0	5.80	0.05	35.67		
	Basic rate	6880.00							
	Area weightage 6%	412.80							
	Sub Total	**7292.80**							
	Total						**35.67**	**7292.80**	**260135.00**
16	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								
	Maruthi Layout								
	5th A Cross Road	Sqm	1	123.00	5.80		713.40		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Basic rate	5.00							
	Area weightage 6%	0.3							
	Sub Total	**5.30**							
	Total								
17	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)						713.40	5.30	3782.00
	Maruthi Layout								
	Cross Road-2	Sqm	1	48.80	6.40		312.32		
	Cross Road-3	Sqm	1	30.00	6.00		180.00		
	5th A Cross Road	Sqm	1	123.00	5.80		713.40		
	Nandhana Nilaya Road	Sqm	1	25.00	5.70		142.50		
	Sri Nilaya House Road	Sqm	1	89.00	6.00		534.00		
	Badmiton Court Road	Sqm	1	88.00	6.20		545.60		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						2427.82	12.72	30882.00
18	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-ll (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)								
	Maruthi Layout								
	Cross Road-2	Cum	1	48.8	6.40	0.04	12.49		
	Cross Road-3	Cum	1	30.0	6.00	0.04	7.20		
	5th A Cross Road	Cum	1	123.0	5.80	0.04	28.54		
	Nandhana Nilaya Road	Cum	1	25.0	5.70	0.04	5.70		
	Sri Nilaya House Road	Cum	1	89.0	6.00	0.04	21.36		
	Badmiton Court Road	Cum	1	88.0	6.20	0.04	21.82		
	Basic rate	7972.00							
	Area weightage 6%	478.32							
	Sub Total	**8450.32**							
	Total						97.11	8450.32	820635.00
19	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Maruthi Layout								
	Cross Road-2	Sqm	2	48.80	0.10		9.76		
	Cross Road-3	Sqm	2	30.00	0.10		6.00		
	5th A Cross Road	Sqm	2	123.00	0.10		24.60		
	Nandhana Nilaya Road	Sqm	2	25.00	0.10		5.00		
	Sri Nilaya House Road	Sqm	2	89.00	0.10		17.80		
	Badmiton Court Road	Sqm	2	88.00	0.10		17.60		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	**454.74**							
	Total						**80.76**	**454.74**	**36725.00**
20	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Maruthi Layout								
	Srinivasa Medical Opposite Road	Cum	1	38	4	0.15	19.95		
	Basic rate	899.00							
	Area weightage 6%	53.94							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**1022.74**							
	Total						**19.95**	**1022.74**	**20404.00**
21	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Maruthi Layout								
	Sri Priya Nilaya Road	Cum	1	123.00	4.70	0.15	86.72		
	BBMP Office Back Side Road	Cum	1	71.00	4.60	0.15	48.99		
	Srinivasa Medical Opposite Road	Cum	1	38.00	3.50	0.15	19.95		
	Srinivasa Building Road	Cum	1	40.00	3.50	0.15	21.00		
	HI -Lines Hyper Market Opposite Road	Cum	1	123.00	4.50	0.15	83.03		
	Basic rate	5315.38							
	Area weightage 6%	318.923							
	Sub Total	5634.31							
	Total						**259.68**	**5634.31**	**1463117.00**
								Grand Total	**17499325.00**
								DPR Charges (1% of estimated cost)	**200000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**200000.00**
								GST Charges (12% of estimated cost)	**2099919.00**
								Miscellenious and rounding	**756.00**
								Total Amount	**20000000.00**
									RUPEES TWO CRORE ONLY

Technical Sanction
Accorded For RS2.00 lakhs only
Head of A/C P-3075
CER NO :09 Dt:17.06.2021
EA CE (YNK)

ADMINISTRATIVE APPROVAL
Accorded For Rs. 200.00 lakhs
Head of A/c. P-3075
Div. Ref. No. 18/20-21/23 Date. 20/01/22

CERTIFICATE:
1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

AE 20/01 EE(BTP) 20/01

Assistant Engineer
BBMP

Assistant Executive Engineer

Executive Engineer

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M P Bangalore-560024

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ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಉಪವಿಭಾಗ ಪಲಯ
ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560092.

RUDRAPRASAD CONSULTANTS BANGALORE